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to to table of	
APPLICATION NUMBER FILING DATE FIRST NAMED APP	
08/786.360 01/16/97 DELLACORTE	C LEW#16183-1
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KENT N. STONE	TOOMER.C
N A S A LEWIS RESEARCH CENTER	ART UNIT PAPER NUMBER
21000 BROOKPARK ROAD CLEVELAND, OHIO 44135	1111 / 3,
	KEMAILEU
	DATE MAILED:
	JUN 10 1997
This is a communication from the examiner in charge of your application.	90 11 10 1001
COMMISSIONER OF PATENTS AND TRADEMARKS	ing and the second of the seco
OFFICE ACTION SUI	MMARY
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Responsive to communication(s) filed on	The executive of the second of the second
This action is FINAL	
Since this application is in condition for allowance except for formal matter	rs, prosecution as to the merits is closed in
accordance with the practice under Ex parte Quayle, 1935 D.C. 11; 453 O	0.G. 213.
shortened statutory period for response to this action is set to expire	month(s), or thirty days,
hichever is longer, from the mailing date of this communication. Failure to re ne application to become abandoned. (35 U.S.C. § 133). Extensions of time	
.136(a).	
isposition of Claims	$A_{ij} = A_{ij} + A$
(Claim(s) (cast o) / / / / / / / / / / / / / / / / / /	is/are pending in the application.
Of the above, claim(s)	is/are withdrawn from consideration.
Claim(s) Cla	<u> १८ - सम्बद्ध । १८ वर्ष वर्ष देवे । ह</u> is/are allowed.
(Claim(s) 1-17	is/are rejected.
Claim(s) settle - the callet the depresent a trape of the callet the callet the depresent a trape of the callet the cal	are subject to restriction or election requirement.
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pplication Papers	
See the attached Notice of Draftsperson's Patent Drawing Review, PTO-9	
	s/are objected to by the Examiner. is. approved disapproved.
The specification is objected to by the Examiner.	
The oath or declaration is objected to by the Examiner.	production of the second section of
riority under 35 U.S.C. § 119	
Acknowledgment is made of a claim for foreign priority under 35 U.S.C. §	
	,
All Some* None of the CERTIFIED copies of the priority of	ocuments have been
received.	
received in Application No. (Series Code/Serial Number) received in this national stage application from the International Burea	ou /PCT Rule 17.2(a))
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*Certified copies not received:	
Acknowledgment is made of a claim for domestic priority under 35 U.S.C.	§ 119(e).
ttachment(s)	
Notice of Reference Cited STO SSS	PLEASE SUBMIT AN OFFICIAL CHANGE OF
Notice of Reference Cited, PTO-892	ADDRESS
Information Disclosure Statement(s), PTO-1449, Paper No(s).	-
Interview Summary, PTO-413	•
Notice of Draftperson's Patent Drawing Review, PTO-948	
Notice of Informal Patent Application, PTO-152	

-SEE OFFICE ACTION ON THE FOLLOWING PAGES-

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DETAILED ACTION

Claim Rejections - 35 USC § 112

- 1. Claims 1-4 are rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for Group IA, GroupIIA and rare earth fluorides, does not reasonably provide enablement for any other "metal fluorides", such as stannous fluoride. The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention commensurate in scope with these claims.
- 2. Claims 1-4 and 12 are rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for the metal binder being a metal alloy containing Cr and at least one of Ni, Co or mixtures thereof, i.e., Ni-based superalloys and Co-based superalloys or mixtures thereof, does not reasonably provide enablement for any other "metal bonded chromium oxide". The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention commensurate in scope with these claims.
- 3. Claims 1-4 are rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for the low temperature lubricating metals: Ag, Au, Pt, Pd, Rh and Cu, does not reasonably provide enablement for all low temperature lubricating metals. The specification

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does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention commensurate in scope with these claims.

4. Claims 1-2, 4 and 12 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 1-2 are rejected because they lack proportions. In the absence of proportions, the metes and bounds of the claims cannot be determined.

In claims 2 and 12, does Applicant mean Groups IA and IIA or is he also including Groups IB and IIB? Clarification is required.

In claim 4, line 1, "a" should be deleted.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- 6. Claims 1-17 are rejected under 35 U.S.C. 102(a) as being anticipated by Dellacorte and Fellenstein or Dellacorte and Laskowski.

Each reference teaches a composite solid lubricant coating, PS300, which comprises chrome oxide, silver and barium fluoride/calcium fluoride eutectic in NiCr binder. See Dellacorte

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and Fellenstein's summary, experimental materials and Table I. See Dellacorte and Laskowski's experimental materials and specimen properties and Table I.

Accordingly, Dellacorte and Fellenstein or Dellacorte and Laskowski anticipate these claims.

- The prior art made of record and not relied upon is considered pertinent to applicant's 7. disclosure.
- Any inquiry concerning this communication or earlier communications from the examiner 8. should be directed to Cephia Toomer whose telephone number is (703) 308-2509.

Patent Examining Group 110

cdt/08786360.1

May 22, 1997